



United States Patent and Trademark Office

, ,

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trädemark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/086,543	C	3/04/2002	Daisuke Kojima	112117	2272
25944	7590	07/26/2004		EXAMINER	
OLIFF & E		E, PLC	PIZIALI, JEFFREY J		
P.O. BOX 15 ALEXAND		22320		ART UNIT	PAPER NUMBER
•	,			2673	.7
			DATE MAILED: 07/26/2004	, <i>[</i>	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Annlia and (a)				
	Application No.	Applicant(s)				
Office Astion Comments	10/086,543	KOJIMA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jeff Piziali	2673				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 10 Ju	ılv 2002.					
• • • • • • • • • • • • • • • • • • • •	action is non-final.					
3) Since this application is in condition for allowar	nce except for formal matters, pro	osecution as to the ments is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ⊠ Claim(s) 1-35 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) 1-35 are subject to restriction and/or expressions.	wn from consideration.					
Application Papers						
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on <u>04 March 2002</u> is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	a)⊠ accepted or b)⊡ objected t drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

Application/Control Number: 10/086,543

Art Unit: 2673

DETAILED ACTION

Election/Restrictions

1. This application contains claims directed to the following patentably distinct species of the claimed invention:

Species I, directed to an electro-optic driving method/device having a plurality of first and second subfield periods included in a single frame, and having the electro-optic element switched ON in the boundary regardless of grayscale data (see *First Embodiment*; Figures 1-10 & 13a; Paragraphs 54-102; Claims 1, 2, 5, 12, 13, 30, and 33 for instance).

Species II, directed to an electro-optic driving method/device having the second subfield period divided into a plurality of divided periods (see *Application Example of the First Embodiment*; Figures 11, 12, 13b, 14 & 15; Paragraphs 103-123; Claims 1, 7-11, 30, and 33 for instance).

Species III, directed to an electro-optic driving method/device having the electro-optic element switched OFF or ON in the boundary depending on grayscale data (see *Fourth Embodiment*; Figure 24; Paragraphs 137-139; Claims 1, 6, 30, and 33 for instance).

Species IV, directed to an electro-optic driving method/device having a plurality of first and second subfield periods included in multiple frames (see *Sixth Embodiment*; Figures 27-34; Paragraphs 146-176; Claims 1, 3, 4, 14-23, 30, 31, 33, and 34 for instance).

Species V, directed to an electro-optic driving method/device having a plurality of first and second subfields constituted so that a boundary reference point in sequentially selecting the first and second subfields according to a level of grayscale coincides with the boundary between

Application/Control Number: 10/086,543

Art Unit: 2673

frames (see *Fifth Embodiment*; Figures 25 & 26; Paragraphs 140-145; Claims 1, 24-30, 32, 33, and 35 for instance).

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, Claims 1, 30, and 33 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

2. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

Art Unit: 2673

currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeff Piziali whose telephone number is (703) 305-8382. The examiner can normally be reached on Monday - Friday (6:30AM - 3PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on (703) 305-4938. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

22 July 2004

SUPERVISORY PATENT EXAMINER
TORNOLOGY CENTER 2600